RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____ 10/594,291 _____
Source: _____ IFWP _____
Date Processed by STIC: _____ 10/06/2006 _____

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RAW SEQUENCE LISTING   DATE: 10/06/2006
PATENT APPLICATION: **US/10/594,291**   TIME: 10:47:14

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\10062006\J594291.raw**

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     3 <110> APPLICANT: Auckland UniServices Limited
     4         Langley, Ries
     5         Fraser, John
     7 <120> TITLE OF INVENTION: SET1 Proteins and Uses Therefor
     9 <130> FILE REFERENCE: SHR504430/142
C-->11 <140> CURRENT APPLICATION NUMBER: US/10/594,291
C-->11 <141> CURRENT FILING DATE: 2006-09-25
    11 <150> PRIOR APPLICATION NUMBER: AU2004901570
    12 <151> PRIOR FILING DATE: 2004-03-24
    14 <160> NUMBER OF SEQ ID NOS: 13
    16 <170> SOFTWARE: PatentIn version 3.1
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    20 <212> TYPE: PRT
    21 <213> ORGANISM: Staphylococcus aureus subsp. NCTC8325
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    30              20                  25                  30
    33 Lys Gln Glu Arg Val Gln His Leu His Asp Ile Arg Asp Leu His Arg
    34              35                  40                  45
    37 Tyr Tyr Ser Ser Glu Ser Phe Glu Tyr Ser Asn Val Ser Gly Lys Val
    38          50                  55                  60
    41 Glu Asn Tyr Asn Gly Ser Asn Val Val Arg Phe Asn Pro Lys Asp Gln
    42 65                  70                  75                  80
    45 Asn His Gln Leu Phe Leu Leu Gly Lys Asp Lys Glu Gln Tyr Lys Glu
    46              85                  90                  95
    49 Gly Leu Gln Gly Gln Asn Val Phe Val Val Gln Glu Leu Ile Asp Pro
    50              100                 105                 110
    53 Asn Gly Arg Leu Ser Thr Val Gly Gly Val Thr Lys Lys Asn Asn Lys
    54              115                 120                 125
    57 Thr Ser Glu Thr Asn Thr Pro Leu Phe Val Asn Lys Val Asn Gly Glu
    58       130                 135                 140
    61 Asp Leu Asp Ala Ser Ile Asp Ser Phe Leu Ile Gln Lys Glu Glu Ile
    62 145                 150                 155                 160
    65 Ser Leu Lys Glu Leu Asp Phe Lys Ile Arg Gln Gln Leu Val Asn Asn
    66              165                 170                 175
    69 Tyr Gly Leu Tyr Lys Gly Thr Ser Lys Tyr Gly Lys Ile Ile Ile Asn
    70              180                 185                 190
    73 Leu Lys Asp Glu Asn Lys Val Glu Ile Asp Leu Gly Asp Lys Leu Gln
    74          195                 200                 205
    77 Phe Glu Arg Met Gly Asp Val Leu Asn Ser Lys Asp Ile Arg Gly Ile
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81 Ser Val Thr Ile Asn Gln Ile
82 225              230
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86 <211> LENGTH: 231
87 <212> TYPE: PRT
88 <213> ORGANISM: Staphylococcus aureus
90 <400> SEQUENCE: 2
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96 Thr Thr Gly Val Ile Thr Ser Glu Gly Gln Ala Val Gln Ala Ala Glu
97              20              25              30
100 Lys Gln Glu Arg Val Gln His Leu His Asp Ile Arg Asp Leu His Arg
101        35              40              45
104 Tyr Tyr Ser Ser Glu Ser Phe Glu Tyr Ser Asn Val Ser Gly Lys Val
105        50              55              60
108 Glu Asn Tyr Asn Gly Ser Asn Val Val Arg Phe Asn Pro Lys Asp Gln
109 65              70              75              80
112 Asn His Gln Leu Phe Leu Leu Gly Lys Asp Lys Glu Gln Tyr Lys Glu
113              85              90              95
116 Gly Leu Gln Gly Gln Asn Val Phe Val Val Gln Glu Leu Ile Asp Pro
117              100             105             110
120 Asn Gly Arg Leu Ser Thr Val Gly Gly Val Thr Lys Lys Asn Asn Lys
121        115             120             125
124 Thr Ser Glu Thr Asn Thr Pro Leu Phe Val Asn Lys Val Asn Gly Glu
125        130             135             140
128 Asp Leu Asp Ala Ser Ile Asp Ser Phe Leu Ile Gln Lys Glu Glu Ile
129 145             150             155             160
132 Ser Leu Lys Glu Leu Asp Phe Lys Ile Arg Gln Gln Leu Val Asn Asn
133              165             170             175
136 Tyr Gly Leu Tyr Lys Gly Thr Ser Lys Tyr Gly Lys Ile Ile Ile Asn
137              180             185             190
140 Leu Lys Asp Glu Asn Lys Val Glu Ile Asp Leu Gly Asp Lys Leu Gln
141        195             200             205
144 Phe Glu Arg Met Gly Asp Val Leu Asn Ser Lys Asp Ile Arg Gly Ile
145        210             215             220
148 Ser Val Thr Ile Asn Gln Ile
149 225             230
152 <210> SEQ ID NO: 3
153 <211> LENGTH: 231
154 <212> TYPE: PRT
155 <213> ORGANISM: Staphylococcus aureus subsp. aureus N315
157 <400> SEQUENCE: 3
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164              20              25              30
167 Lys Gln Glu Arg Val Gln His Leu Tyr Asp Ile Lys Asp Leu Tyr Arg
168        35              40              45
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171 Tyr Tyr Ser Ser Glu Ser Phe Glu Phe Ser Asn Ile Ser Gly Lys Val
172   50   55   60
175 Glu Asn Tyr Asn Gly Ser Asn Val Val Arg Phe Asn Gln Glu Lys Gln
176 65   70   75   80
179 Asn His Gln Leu Phe Leu Leu Gly Lys Asp Lys Asp Lys Tyr Lys Lys
180   85   90   95
183 Gly Leu Glu Gly Gln Asn Val Phe Val Val Lys Glu Leu Ile Asp Pro
184   100   105   110
187 Asn Gly Arg Leu Ser Thr Val Gly Gly Val Thr Lys Lys Asn Asn Lys
188   115   120   125
191 Ser Ser Glu Thr Asn Thr His Leu Phe Val Asn Lys Val Tyr Gly Gly
192   130   135   140
195 Asn Leu Asp Ala Ser Ile Asp Ser Phe Leu Ile Asn Lys Glu Glu Val
196 145   150   155   160
199 Ser Leu Lys Glu Leu Asp Phe Lys Ile Arg Lys Gln Leu Val Glu Lys
200   165   170   175
203 Tyr Gly Leu Tyr Lys Gly Thr Thr Lys Tyr Gly Lys Ile Thr Ile Asn
204   180   185   190
207 Leu Lys Asp Glu Lys Lys Glu Val Ile Asp Leu Gly Asp Lys Leu Gln
208   195   200   205
211 Phe Glu Arg Met Gly Asp Val Leu Asn Ser Lys Asp Ile Gln Asn Ile
212   210   215   220
215 Ala Val Thr Ile Asn Gln Ile
216 225   230
219 <210> SEQ ID NO: 4
220 <211> LENGTH: 231
221 <212> TYPE: PRT
222 <213> ORGANISM: Staphylococcus aureus subsp. aureus Mu50
224 <400> SEQUENCE: 4
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230 Thr Thr Gly Val Ile Thr Ser Glu Gly Gln Ala Val His Ala Lys Glu
231   20   25   30
234 Lys Gln Glu Arg Val Gln His Leu Tyr Asp Ile Lys Asp Leu Tyr Arg
235   35   40   45
238 Tyr Tyr Ser Ser Glu Ser Phe Glu Phe Ser Asn Ile Ser Gly Lys Val
239   50   55   60
242 Glu Asn Tyr Asn Gly Ser Asn Val Val Arg Phe Asn Gln Glu Lys Gln
243 65   70   75   80
246 Asn His Gln Leu Phe Leu Leu Gly Lys Asp Lys Asp Lys Tyr Lys Lys
247   85   90   95
250 Gly Leu Glu Gly Gln Asn Val Phe Val Val Lys Glu Leu Ile Asp Pro
251   100   105   110
254 Asn Gly Arg Leu Ser Thr Val Gly Gly Val Thr Lys Lys Asn Asn Lys
255   115   120   125
258 Ser Ser Glu Thr Asn Thr His Leu Phe Val Asn Lys Val Tyr Gly Gly
259   130   135   140
262 Asn Leu Asp Ala Ser Ile Asp Ser Phe Leu Ile Asn Lys Glu Glu Val
263 145   150   155   160

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Output Set: N:\CRF4\10062006\J594291.raw

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266 Ser Leu Lys Glu Leu Asp Phe Lys Ile Arg Lys Gln Leu Val Glu Lys
267               165               170               175
270 Tyr Gly Leu Tyr Lys Gly Thr Thr Lys Tyr Gly Lys Ile Thr Ile Asn
271               180               185               190
274 Leu Lys Asp Glu Lys Lys Glu Val Ile Asp Leu Gly Asp Lys Leu Gln
275           195               200               205
278 Phe Glu Arg Met Gly Asp Val Leu Asn Ser Lys Asp Ile Gln Asn Ile
279       210               215               220
282 Ala Val Thr Ile Asn Gln Ile
283 225               230
286 <210> SEQ ID NO: 5
287 <211> LENGTH: 231
288 <212> TYPE: PRT
289 <213> ORGANISM: Staphylococcus aureus subsp. aureus MW2
291 <400> SEQUENCE: 5
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294 1                 5                 10                15
297 Thr Thr Gly Val Ile Thr Ser Glu Gly Gln Ala Val Gln Ala Lys Glu
298               20                25                30
301 Lys Gln Glu Arg Val Gln His Leu Tyr Asp Ile Lys Asp Leu His Arg
302           35                40                45
305 Tyr Tyr Ser Ser Glu Ser Phe Glu Phe Ser Asn Ile Ser Gly Lys Val
306       50                55                60
309 Glu Asn Tyr Asn Gly Ser Asn Val Val Arg Phe Asn Gln Glu Asn Gln
310 65                70                75                80
313 Asn His Gln Leu Phe Leu Ser Gly Lys Asp Lys Asp Lys Tyr Lys Glu
314               85                90                95
317 Gly Leu Glu Gly Gln Asn Val Phe Val Val Lys Glu Leu Ile Asp Pro
318               100               105               110
321 Asn Gly Arg Leu Ser Thr Val Gly Gly Val Thr Lys Lys Asn Asn Gln
322           115               120               125
325 Ser Ser Glu Thr Asn Thr Pro Leu Phe Ile Lys Lys Val Tyr Gly Gly
326       130               135               140
329 Asn Leu Asp Ala Ser Ile Glu Ser Phe Leu Ile Asn Lys Glu Glu Val
330 145               150               155               160
333 Ser Leu Lys Glu Leu Asp Phe Lys Ile Arg Gln His Leu Val Lys Asn
334               165               170               175
337 Tyr Gly Leu Tyr Lys Gly Thr Thr Lys Tyr Gly Lys Ile Thr Phe Asn
338               180               185               190
341 Leu Lys Asp Gly Glu Lys Gln Glu Ile Asp Leu Gly Asp Lys Leu Gln
342           195               200               205
345 Phe Glu His Met Gly Asp Val Leu Asn Ser Lys Asp Ile Gln Asn Ile
346       210               215               220
349 Ala Val Thr Ile Asn Gln Ile
350 225               230
353 <210> SEQ ID NO: 6
354 <211> LENGTH: 201
355 <212> TYPE: PRT
356 <213> ORGANISM: S.aureus
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RAW SEQUENCE LISTING   DATE: 10/06/2006
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Input Set : **A:\PTO.RJ.txt**
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358 <400> SEQUENCE: 6
360 Lys Glu Lys Gln Glu Arg Val Gln His Leu Tyr Asp Ile Lys Asp Leu
361 1               5                   10                  15
364 His Arg Tyr Tyr Ser Ser Glu Ser Phe Asp Phe Ser Asn Ile Ser Gly
365             20                  25                  30
368 Lys Val Glu Asn Tyr Asn Gly Ser Asn Val Val Arg Phe Asn Gln Asp
369         35                  40                  45
372 Gly Gln Asn His Gln Leu Phe Leu Leu Gly Glu Asp Lys Ala Lys Tyr
373     50                  55                  60
376 Lys Gln Gly Leu Glu Gly Gln Asn Val Phe Val Val Lys Glu Leu Ile
377 65                  70                  75                  80
380 Asp Pro Asn Gly Arg Leu Ser Thr Val Gly Gly Val Thr Lys Lys Asn
381             85                  90                  95
384 Asn Gln Ser Ser Glu Thr Asn Thr Pro Leu Phe Val Lys Lys Val Tyr
385             100                 105                 110
388 Gly Gly Asn Leu Asp Ala Ser Ile Glu Ser Phe Ser Ile Asn Lys Glu
389             115                 120                 125
392 Glu Val Ser Leu Lys Glu Leu Asp Phe Lys Ile Arg Gln His Leu Val
393         130                 135                 140
396 Lys Asn Tyr Gly Leu Tyr Lys Gly Thr Thr Lys Tyr Gly Lys Ile Thr
397 145                 150                 155                 160
400 Phe Asn Leu Lys Asp Gly Glu Lys Lys Glu Ile Asp Leu Gly Asp Lys
401             165                 170                 175
404 Leu Gln Phe Glu His Met Gly Asp Val Leu Asn Ser Lys Asp Ile Gln
405             180                 185                 190
408 Asn Ile Ala Val Thr Leu Lys Gln Ile
409         195                 200
412 <210> SEQ ID NO: 7
413 <211> LENGTH: 201
414 <212> TYPE: PRT
415 <213> ORGANISM: S.aureus
417 <400> SEQUENCE: 7
419 Lys Glu Lys Gln Glu Arg Val Gln His Leu Tyr Asp Ile Lys Asp Leu
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423 His Arg Tyr Tyr Ser Ser Glu Ser Phe Glu Phe Ser Asn Ile Ser Gly
424             20                  25                  30
427 Lys Val Glu Asn Tyr Asn Gly Ser Asn Val Val Arg Phe Asn Gln Glu
428         35                  40                  45
431 Lys Gln Asn His Gln Leu Phe Leu Leu Gly Glu Asp Lys Ala Lys Tyr
432     50                  55                  60
435 Lys Gln Gly Leu Gln Gly Gln Asp Val Phe Val Val Lys Glu Leu Ile
436 65                  70                  75                  80
439 Asp Pro Asn Gly Arg Leu Ser Thr Val Gly Gly Val Thr Lys Lys Asn
440             85                  90                  95
443 Asn Gln Ser Ser Glu Thr Asn Ile His Leu Leu Val Asn Lys Leu Asp
444             100                 105                 110
447 Gly Gly Asn Leu Asp Ala Thr Asn Asp Ser Phe Leu Ile Asn Lys Glu
448             115                 120                 125
451 Glu Val Ser Leu Lys Glu Leu Asp Phe Lys Ile Arg Lys Gln Leu Val
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VERIFICATION SUMMARY   DATE: 10/06/2006
PATENT APPLICATION: **US/10/594,291**   TIME: 10:47:15

Input Set : **A:\PTO.RJ.txt**
Output Set: **N:\CRF4\10062006\J594291.raw**

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date